Nouryon
Nouryon Chemicals LLC

Nouryon

February 19, 2019

CBIC Control Number
381407

US EPA Office of Pollution Prevention and Toxics
1201 Constitution Avenue, NW
WJC East; Room 6428; Attn: Section 8(e)
Washington, DC 20004-3302

SUBJECT: TSCA 8(e) Notice

Dear TSCA Section 8(e) Coordinator:

On behalf of Akzo Nobel Functional Chemicals LLC, a Nouryon Company, we are submitting results of an OECD 443 Extended One Generation Reproduction Toxicity study conducted on Carbon Disulfide CAS# 75-15-0 as outlined below. The study was commissioned for REACH and sponsored by Carbosulf Chemische Werke GmbH (Acting as the lead company for the TDC-Consortium CS2 which includes the following members: Carbosulf Chemische Werke GmbH, Adisseo France S.A.S.; BASF SE; Lenzing AG; Treuhandgemeinschaft Deutscher; Welding GmbH & Co. KG and AkzoNobel Specialty Chemicals Bv).

Previous letters were submitted to EPA on July 13, 2018 (8EHQ-18-21372), August 10, 2018, October 31, 2018, December 19, 2018 and January 24, 2019 containing initial findings. The current submission only reports on findings not previously reported.

The test item and vehicle were administered to Crl: WI(Han) rats once daily by oral Gavage, (0, 1.2, 12, 120 mg/kg/day) 7 days a week. F0-males were treated for a minimum of 12 weeks, including 10 weeks prior to mating and during the mating period, up to and including the day before scheduled necropsy. F0-females were treated for a minimum of 16 weeks, including 10 weeks prior to mating, the variable time to conception, the duration of pregnancy and at least 21 days after delivery, up to and including the day before scheduled necropsy. Females were not dosed during littering.

During lactation (up to PND 21), pups were not treated directly but could potentially be exposed to the test item in utero, for example via maternal milk. From weaning onwards (PND 21), F1-animals of Cohorts 1A, 1B, 1C and 2A were dosed up to and including the day before scheduled necropsy. Cohort 2B was not further dosed and was necropsied at PND 21-22.

The following additional results were found in <u>high dose group</u> animals (F0 and F1 (Cohort 1A):

<u>Thymus</u>
F0: Lymphoid depletion (minimal-slight) in about two-thirds of the males versus a single control male (minimal).

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F1: Lymphoid depletion (minimal-slight) in about half of the males and females but not in controls.

Spleen
F0: Increased extramedullary hematopoiesis (minimal-slight) in majority of males versus about half of the controls (minimal).
F0: Pigmentation (likely hemosiderin) (minimal-slight) in majority of males versus about half of the controls (minimal).
F0: Pigmentation (likely hemosiderin) (minimal-moderate) in all females versus about four-fifths of the controls (minimal-slight).

Eyes
F0: Atrophy of the outer nuclear layer of the retina (minimal-moderate) in about one-quarter of the males versus a single control male (minimal).
F0: Atrophy of the outer nuclear layer of the retina (minimal-marked) in more than half of the females versus a single control female (minimal).
F1: Atrophy of the outer nuclear layer of the retina (minimal-slight) in about one-quarter of the males but not in controls.
F1: Atrophy of the outer nuclear layer of the retina (slight-moderate) in less than one-quarter of the females but not in controls.

In addition, the number of primordial and primary follicles was statistically significantly reduced in females of the F1 group.

Akzo Nobel Functional Chemicals LLC, a Nouryon Company, has made no determination as to whether a significant risk of injury to health or the environment is actually presented by the findings.

Please contact me at (312) 544-7061 if you have any questions regarding this letter.

Sincerely,

Louette Rausch

Louette Rausch
Manager Toxicology and Environmental Expertise
Nouryon Chemicals LLC
525 W. Van Buren
Chicago, Il 60607

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